
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Fri Sep 28 12:31:48 EDT 2007

Validated By CRFValidator v 1.0.3

Application No: 10587776 Version No: 1.0

Input Set:

Output Set:

Started: 2007-09-18 19:09:52.914 **Finished:** 2007-09-18 19:09:54.325

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 411 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 14

Actual SeqID Count: 14

SEQUENCE LISTING

<110		MIYAI														
		YOSH		•												
		UCHII MIYAI			LCni	ro										
		HILIM	,	Juli												
<120		COMP(AND r	nETH(DD FO	OR El	LEVA:	ring	GENI	E TRA	ANSFI	ER		
<130)>	69012	21.40	08USI	PC											
<140)>	1058	7776													
<141	L>	2007-	-09-1	18												
<160)>	14														
<170)>	PatentIn version 3.1														
111	, -	Patentin version 3.1														
<210)>	1														
<211	L>	1929														
<212	2>	DNA														
<213	3>	DNA Homo sapiens														
<220)>															
<221		CDS														
<222	2>	(1).	. (192	29)												
<223	3>	fibro	onect	tin :	L											
- 400		7														
<400		1 agg	aat	cca	aaa	CCC	aaa	cta	ct a	ct a	cta	acc	ata	cac	tac	48
		Arg														40
1		9	1	5	1		1		10					15	-1-	
ctg	ggg	aca	gcg	gtg	ccc	tcc	acg	gga	gcc	tcg	aag	agc	aag	agg	cag	96
Leu	Gly	Thr		Val	Pro	Ser	Thr		Ala	Ser	Lys	Ser		Arg	Gln	
			20					25					30			
act	caq	caa	atσ	att	caq	ccc	caq	tcc	cca	ata	act	atc	agt	caa	agc	144
_	_	Gln	_	_	_		_		_		_	_	_		_	
		35					40					45				
_		ggt	_		-						_				_	192
Lys		Gly	Cys	Tyr	Asp		Gly	Lys	His	Tyr		Ile	Asn	Gln	Gln	
	50					55					60					
taa	gag	cgg	acc	tac	cta	aac	aat	aca	tta	att	tat	act	tat	tat	qqa	240
		Arg							_	-	_		_			
65		_		_	70	_				75			_	_	80	
gga	agc	cga	ggt	ttt	aac	tgc	gag	agt	aaa	cct	gaa	gct	gaa	gag	act	288
Gly	Ser	Arg	Gly		Asn	Cys	Glu	Ser	_	Pro	Glu	Ala	Glu		Thr	
				85					90					95		
tgc	ttt	gac	aaq	tac	act	gga	aac	act	tac	cga	gta	ggt	gac	act	tat	336
-		-	_							-			-			

Cys	Phe	Asp	Lys 100	Tyr	Thr	Gly	Asn	Thr 105	Tyr	Arg	Val	Gly	Asp 110	Thr	Tyr		
	_			gac Asp		_			_	_		_			_	384	
	_		-	ata Ile	-	-			-		_	_		-		432	
	_			aag Lys			_				_					480	
			_	tta Leu 165	, ,	_		_							_	528	
		_	_	ccc Pro		-		_	_		_		-	_		576	
				gtc Val		_	_			_						624	
_	_	-	-	tgt Cys		_	_		_		_		_			672	
_			_	aat Asn	-	-		-	_	-						720	
_			_	acc Thr 245		_	_	_	_		_			_		768	
_	_		_	aca Thr				_				_	_			816	
				cag Gln			_	-							-	864	
_	_	_	_	gtt Val			_	_				_				912	
			-	gtc Val		-	_			-					_	960	
_		_	_	aca Thr				_		_		_	_	_	_	1008	

325 330 335

			_	-	_			aca Thr 345	_	_		_				1056
							_	gtc Val							3 3	1104
	_	-	_			_		tat Tyr		_	_	_				1152
	_		-			-	_	gtt Val	_		_					1200
		_	_	_				ttc Phe								1248
	-	_					_	aga Arg 425	_		_	_		-	3 2 2	1296
		_			-	-	_	cag Gln	_				_		-	1344
	-			-		-		acc Thr		-		-	_		-	1392
		-	_		_	_	_	cat His	-	_			_	_		1440
_	_	_	-				_	Gly	_			_		-		1488
_	_		_	-	_	-		gtt Val 505	_	_						1536
	-				_	_		gaa Glu				_	_		_	1584
	_			_				agg Arg		_	_	_		_	_	1632
	_	_	-					acg Thr						-		1680

tgg gag aag tat gtg cat ggt gtc aga tac cag tgc tac tgc tat ggc Trp Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr Cys Tyr Gly 565 570 575	1728
cgt ggc att ggg gag tgg cat tgc caa cct tta cag acc tat cca agc Arg Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr Tyr Pro Ser 580 585 590	1776
tca agt ggt cct gtc gaa gta ttt atc act gag act ccg agt cag ccc Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln Pro 595 600 605	1824
aac tcc cac ccc atc cag tgg aat gca cca cag cca tct cac att tccAsn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile Ser610615	1872
aag tac att ctc agg tgg aga cct gtg agt atc cca ccc aga aac ctt Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg Asn Leu 625 630 635 640	1920
gga tac tga Gly Tyr	1929
<210> 2 <211> 642 <212> PRT	
<213> Homo sapiens	
<213> Homo sapiens	
<213> Homo sapiens <400> 2 Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Ala Val Gln Cys	
<pre><213> Homo sapiens </pre> <pre><400> 2 Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Leu Ala Val Gln Cys 1</pre>	
<pre><213> Homo sapiens </pre> <pre><400> 2 Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Leu Ala Val Gln Cys 1</pre>	
<pre><213> Homo sapiens </pre> <pre><400> 2 Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Leu Ala Val Gln Cys 1</pre>	

Cys Phe Asp	Lys Tyr 100	Thr Gly		Thr Tyr 105	Arg Val	Gly As	_	Tyr
Glu Arg Pro 115	Lys Asp	Ser Met	Ile T	ſrp Asp	Cys Thr	Cys I]	le Gly	Ala
Gly Arg Gly 130	Arg Ile	Ser Cys 135	Thr I	Ile Ala	Asn Arg 140	Cys Hi	is Glu	Gly
Gly Gln Ser 145	Tyr Lys	Ile Gly 150	Asp T	Thr Trp	Arg Arg 155	Pro Hi	is Glu	Thr 160
Gly Gly Tyr	Met Leu 165	Glu Cys	Val (Cys Leu 170	Gly Asn	Gly Ly	ys Gly 175	Glu
Trp Thr Cys	Lys Pro 180	Ile Ala		Lys Cys 185	Phe Asp	His Al		Gly
Thr Ser Tyr 195	Val Val	Gly Glu	Thr T	Гrp Glu	Lys Pro	Tyr Gl	ln Gly	Trp
Met Met Val 210	Asp Cys	Thr Cys 215	Leu G	Gly Glu	Gly Ser 220	Gly An	rg Ile	Thr
Cys Thr Ser 225	Arg Asn	Arg Cys 230	Asn A	Asp Gln	Asp Thr 235	Arg Th	nr Ser	Tyr 240
Arg Ile Gly	Asp Thr 245	Trp Ser	Lys I	Lys Asp 250	Asn Arg	Gly As	sn Leu 255	Leu
Gln Cys Ile	Cys Thr 260	Gly Asn	_	Arg Gly 265	Glu Trp	Lys Cy		Arg
His Thr Ser 275	Val Gln	Thr Thr	Ser S 280	Ser Gly	Ser Gly	Pro Ph	ne Thr	Asp
Val Arg Ala 290	Ala Val	Tyr Gln 295	Pro G	Gln Pro	His Pro 300	Gln Pı	ro Pro	Pro
Tyr Gly His 305	Cys Val	Thr Asp	Ser G	Gly Val	Val Tyr 315	Ser Va	al Gly	Met 320

Gln	Trp	Leu	Lys	Thr 325	Gln	Gly	Asn	Lys	Gln 330	Met	Leu	Суз	Thr	Суз 335	Leu
Gly	Asn	Gly	Val 340	Ser	Суз	Gln	Glu	Thr 345	Ala	Val	Thr	Gln	Thr 350	Tyr	Gly
Gly	Asn	Ser 355	Asn	Gly	Glu	Pro	Cys 360	Val	Leu	Pro	Phe	Thr 365	Tyr	Asn	Gly
Arg	Thr 370	Asp	Ser	Thr	Thr	Ser 375	Asn	Tyr	Glu	Gln	Asp 380	Gln	Lys	Tyr	Ser
Phe 385	Cys	Thr	Asp	His	Thr 390	Val	Leu	Val	Gln	Thr 395	Arg	Gly	Gly	Asn	Ser 400
Asn	Gly	Ala	Leu	Cys 405	His	Phe	Pro	Phe	Leu 410	Tyr	Asn	Asn	His	Asn 415	Tyr
Thr	Asp	Суз	Thr 420	Ser	Glu	Gly	Arg	Arg 425	Asp	Asn	Met	Lys	Trp 430	Суз	Gly
Thr	Thr	Gln 435	Asn	Tyr	Asp	Ala	Asp 440	Gln	Lys	Phe	Gly	Phe 445	Суз	Pro	Met
Ala	Ala 450	His	Glu	Glu	Ile	Cys 455	Thr	Thr	Asn	Glu	Gly 460	Val	Met	Tyr	Arg
Ile 465	Gly	Asp	Gln	Trp	Asp 470	Lys	Gln	His	Asp	Met 475	Gly	His	Met	Met	Arg 480
Суз	Thr	Суз	Val	Gly 485	Asn	Gly	Arg	Gly	Glu 490	Trp	Thr	Суз	Ile	Ala 495	Tyr
Ser	Gln	Leu	Arg 500	Asp	Gln	Суз	Ile	Val 505	Asp	Asp	Ile	Thr	Tyr 510	Asn	Val
Asn	Asp	Thr 515	Phe	His	Lys	Arg	His 520	Glu	Glu	Gly	His	Met 525	Leu	Asn	Cys
Thr	Cys 530	Phe	Gly	Gln	Gly	Arg 535	Gly	Arg	Trp	Lys	Cys 540	Asp	Pro	Val	Asp

Gln Cys Gln Asp Ser Glu Thr Gly Thr Phe Tyr Gln Ile Gly Asp Ser

545 550 555 560

Trp Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr Cys Tyr Gly 565 570 575

Arg Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr Tyr Pro Ser 580 585 590

Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln Pro 595 600 605

Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile Ser 610 615 620

Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg Asn Leu 625 630 635 640

Gly Tyr

<210> 3

<211> 798

<212> PRT

<213> Homo sapiens

<400> 3

Met Asn Leu Gln Pro Ile Phe Trp Ile Gly Leu Ile Ser Ser Val Cys 1 5 10 15

Cys Val Phe Ala Gln Thr Asp Glu Asn Arg Cys Leu Lys Ala Asn Ala 20 25 30

Lys Ser Cys Gly Glu Cys Ile Gln Ala Gly Pro Asn Cys Gly Trp Cys 35 40 45

Thr Asn Ser Thr Phe Leu Gln Glu Gly Met Pro Thr Ser Ala Arg Cys 50 55 60

Asp Asp Leu Glu Ala Leu Lys Lys Lys Gly Cys Pro Pro Asp Asp Ile 65 70 75 80

Glu Asn Pro Arg Gly Ser Lys Asp Ile Lys Lys Asn Lys Asn Val Thr 85 90 95

Asn Arg Ser	Lys Gly	Thr Ala		Lys Leu 105	Lys Pro	Glu Ası		Thr
Gln Ile Gln 115	Pro Gln	Gln Leu	Val I 120	Leu Arg	Leu Arg	Ser Gly	y Glu	Pro
Gln Thr Phe	Thr Leu	Lys Phe	Lys A	Arg Ala	Glu Asp 140	Tyr Pro	o Ile	Asp
Leu Tyr Tyr 145	Leu Met	Asp Leu 150	Ser I	Tyr Ser	Met Lys 155	Asp Asp	o Leu	Glu 160
Asn Val Lys	Ser Leu 165	Gly Thr	Asp I	Leu Met 170	Asn Glu	Met Arc	g Arg 175	Ile
Thr Ser Asp	Phe Arg 180	Ile Gly		Gly Ser 185	Phe Val	Glu Ly:		Val
Met Pro Tyr 195	Ile Ser	Thr Thr	Pro A	Ala Lys	Leu Arg	Asn Pro	o Cys	Thr
Ser Glu Gln 210	Asn Cys	Thr Ser 215	Pro F	Phe Ser	Tyr Lys 220	Asn Va	l Leu	Ser
Leu Thr Asn 225	Lys Gly	Glu Val 230	Phe A	Asn Glu	Leu Val 235	Gly Ly:	∃ Gln	Arg 240
Ile Ser Gly	Asn Leu 245	Asp Ser	Pro 0	Glu Gly 250	Gly Phe	Asp Ala	a Ile 255	Met
Gln Val Ala	Val Cys 260	Gly Ser		Ile Gly 265	Trp Arg	Asn Vai		Arg
Leu Leu Val 275	Phe Ser	Thr Asp	Ala 0	Gly Phe	His Phe	Ala Gly 285	y Asp	Gly
Lys Leu Gly 290	Gly Ile	Val Leu 295	Pro A	Asn Asp	Gly Gln 300	Cys Hi:	s Leu	Glu
Asn Asn Met 305	Tyr Thr	Met Ser 310	His T	Tyr Tyr	Asp Tyr 315	Pro Se	r Ile	Ala 320

1115	Leu	vai	OIII	325	Lea	DCI	Olu	71511	330	110	OIII		110	335	7114
Val	Thr	Glu	Glu 340	Phe	Gln	Pro	Val	Tyr 345	Lys	Glu	Leu	Lys	Asn 350	Leu	Ile
Pro	Lys	Ser 355	Ala	Val	Gly	Thr	Leu 360	Ser	Ala	Asn	Ser	Ser 365	Asn	Val	Ile
Gln	Leu 370	Ile	Ile	Asp	Ala	Tyr 375	Asn	Ser	Leu	Ser	Ser 380	Glu	Val	Ile	Leu
Glu 385	Asn	Gly	Lys	Leu	Ser 390	Glu	Gly	Val	Thr	Ile 395	Ser	Tyr	Lys	Ser	Tyr 400
			Gly	405					410					415	
			11e 420					425					430		
		435	Pro	_			440					445			
	450		Glu			455					460				
465			Ser		470					475					480
			Phe	485	_				490					495	
Gly	Arg	His	Cys 500	G1u	Суз	Ser	Thr	Asp 505	Glu	Val	Asn	Ser	Glu 510	Asp	Met

Asp Ala Tyr Cys Arg Lys Glu Asn Ser Ser Glu Ile Cys S

His Leu Val Gln Lys Leu Ser Glu Asn Asn Ile Gln Thr Ile Phe Ala